

WHAT IS CLAIMED IS:

1. A compressor comprising:
  - a sealed compressor shell housing a compressor pump unit, an electric motor for driving said compressor pump unit, and a low voltage device for monitoring predetermined aspects of compressor performance;
  - an inlet opening in said compressor shell for receiving an incoming high volt electric power supply for powering said electric motor; and
  - a system for converting said incoming high voltage electric power to a low volt electric power, and feeding low volt electric power to said low voltage device.
2. A compressor as recited in Claim, 1 wherein said system for converting to low volt electric power is housed within said sealed compressor shell.
3. A compressor as recited in Claim 2, wherein said system for converting low volt electric power has a power tap associated with said incoming high volt electric power supply; and
  - a circuit for converting high volt electric power to low volt electric power;
4. A compressor as recited in Claim 3, wherein said circuit for converting high volt electric power to low volt electric power includes a transformer.
5. A compressor as recited in Claim 1, wherein said compressor pump unit is a scroll compressor.
6. A compressor as recited in Claim 1, wherein said low voltage device is a diagnostic control.
7. A compressor as recited in Claim 1, wherein said low voltage device is a sensor.

8. A compressor as recited in Claim 1, wherein said low voltage device is a valve.

9. A method for providing low voltage electric power to a low voltage device that is housed within a sealed compressor shell comprising the steps of:

tapping high voltage electrical power from an incoming high voltage electric power line positioned within said sealed compressor shell;

converting said high voltage electric power to low voltage electric power;

and

feeding said low voltage electric power to said low voltage device.

10. A compressor comprising:

a sealed compressor shell housing a compressor pump unit, an electric motor for driving said compressor pump unit, a diagnostic control device for monitoring predetermined aspects of compressor performance, and a conversion circuit for feeding low volt electric power to said diagnostic control device;

an inlet opening in said compressor shell for receiving an incoming high volt electric power supply for powering said electric motor; and

said circuit for feeding low volt electric power to said diagnostic control device comprises a power tap associated with said incoming high volt electric power supply, and a system for converting high volt electric power to low volt electric power for powering said diagnostic control device.

11. A compressor as recited in Claim 10, wherein said circuit for converting high volt electric power to low volt electric power includes a transformer.